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6. (Twice Amended) The plant as claimed in claim 1, wherein at least two adjacent layers of the winding have substantially the same coefficients of thermal expansion.

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8. (Twice Amended) The plant as claimed in claim 1, wherein each of said layers has a contact surface and each said layer is firmly joined to an adjacent layer along substantially its entire contact surface.

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10. (Twice Amended) An electric power plant comprising at least one alternating current electric machine for direct connection to a distribution or transmission network and comprising at least one magnetic core and at least one electric winding, formed of a cable comprising one or more current-carrying conductors, each of said conductors having a number of conductive elements, an inner semiconducting layer provided around the conductive elements, an insulating layer of solid insulating material provided around said inner semiconducting layer, and an outer semiconducting layer provided around the insulating layer, and auxiliary power means for providing an auxiliary power.

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12. (Twice Amended) The plant as claimed in claim 1, wherein the electric machine is a rotary electric machine and wherein a stator is provided with at least two windings for different voltages, one of said windings being arranged as auxiliary power winding to generate an auxiliary power.

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18. (Twice Amended) The plant as claimed in claim 12, wherein the stator includes adjacent teeth separated by a slot having a bottom and the auxiliary power winding is located in the bottom of the slot formed between the adjacent stator teeth.

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20. (Twice Amended) The plant as claimed in claim 18, wherein the stator includes a plurality of slots, and the auxiliary power winding is placed in each of the plurality of slots of the stator.

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21. (Twice Amended) The plant as claimed in claim 1, wherein the electric machine is a generator having a generator winding and the auxiliary power means comprises a tapping terminal on the generator winding for tapping said auxiliary power, to form an auxiliary power source.

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25. (Twice Amended) The plant as claimed in claim 24, wherein at least one of the windings of the earthing transformer includes a tapping terminal for extracting said auxiliary power.

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40. (Twice Amended) The plant as claimed in claim 22, wherein the auxiliary power generator is connected to an auxiliary power busbar, and an integral motor is arranged to keep a speed of the auxiliary power generator constant when variations appear in at least one of a voltage and a frequency of a supply network.

41. (Twice Amended) The plant as claimed in claim 22, wherein power electronics equipment is arranged for optional control of power flow from the auxiliary power generator to an auxiliary power busbar or from the auxiliary power busbar to the auxiliary power generator.

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54. (Twice Amended) An electric power plant comprising at least one alternating current rotary electric machine for connection directly to a distribution or transmission network and comprising at least one electric winding, wherein the winding of the machine is formed of at least one electric conductor, a first layer with semiconducting properties surrounding the conductor, a solid insulating layer surrounding the first layer and a second layer with semiconducting properties surrounding the insulating layer, and an auxiliary power is generated with the aid of an extra winding on a stator.
